

WHAT IS CLAIMED IS:

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1. A recording medium comprising:
data sectors; and
identifier portions each provided for more
than one of the data sectors,
10 each of the identifier portions being
arranged in positions shifted from the identifier
portions on adjacent tracks.

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2. The recording medium as claimed in
claim 1, wherein predetermined tracks are produced
in the form of lands, and other tracks adjacent to
20 the predetermined tracks are produced in the form of
grooves.

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3. The recording medium as claimed in
claim 1, wherein the identifier portions have
addresses which are consecutive in a direction of
the tracks.

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4. The recording medium as claimed in

claim 1, wherein the identifier portions have
addresses which are consecutive in a direction of
the tracks at intervals of a constant address value.

5. The recording medium as claimed in
claim 1, wherein synchronizing information portions
for distinguishing the data sectors are provided
between the data sectors.

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10 6. The recording medium as claimed in
claim 5, wherein the synchronizing information
portions are arranged adjacent to each other on
mutually adjacent tracks.

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20 7. The recording medium as claimed in
claim 5, wherein the synchronizing information
portions between sectors on adjacent tracks have the
same pattern, and the pattern of the synchronizing
information portions in the data sectors with the
identifier portions on a track are different from
the pattern of the synchronizing information
portions in the data sectors with no identifier
25 portions.

30 8. The recording medium as claimed in
claim 6, wherein the synchronizing information
portions are provided on every other track.

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9. An ~~A~~ information storage apparatus for

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making access to a recording medium which has data sectors, and identifier portions each provided for more than one of the data sectors, each of the identifier portions being arranged in positions
5 shifted from each other on adjacent tracks, said information storage apparatus comprising:

an address determination unit which generates addresses of the data sectors based on the identifier portions, and determines whether a
10 desired data sector is reached in accordance with the addresses.

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10. The information storage apparatus as claimed in claim 9, wherein the address determination unit counts the number of data sectors, and generates the addresses based on the identifier portions and the number of the data sectors.

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11. The information storage apparatus as claimed in claim 9, further comprising a servo controller which changes servo error sensitivity based on an identifier portion closest to a desired data sector having no identifier portion when
30 read/write is performed on the desired data sector.

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12. The information storage apparatus as claimed in claim 9, wherein the address determination unit outputs a window signal having an

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expanded margin with respect to timing at which the address determination unit determines the address of a data sector with no identifier portion.

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13. The information storage apparatus as
claimed in claim 9, wherein when the address
10 determination unit determines the address of a data
sector with no identifier portion, data is received
from a data sector which has the identifier portion
and is located immediately before the sector with no
identifier portion.

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